

Review of: "Use of the experimental designs as an approach to optimize the inhibition efficiency of a Pyridazine derivative against corrosion of steel in an acidic medium"

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Potential competing interests: No potential competing interests to declare.

In this work, authors introduced a practical method to evaluate the corrosion inhibition effect of pyridazine derivative for mild steel in the acidic medium. The proposed models own the merit in the future anticorrosive studies. I think it can be published after concerning the major points as follows.

- --- A more wide background for corrosion inhibitors should placed in the Introduction section *\(\ell.g.*\), Sustain. Chem. Pharm., 2022, 29: 100821; *Mater. Lett.* 2023, 337: 133979; ...)
- --- For the preparation of CDM, only one reaction direction is enough. It is unnecessary for authors to display the side-reaction.
- --- How is the acquiring way for the coefficients of multiple linear regression model. Authors should make a clear definition.
- --- I am confused that the values of IE shown in Table 4. Are those data from gravimetric tests? Please give a more explicit indication.

Qeios ID: LQXKV6 · https://doi.org/10.32388/LQXKV6